## -continued

```
Gly Ile Arg Tyr Lys Phe Asn Val Pro Ile Thr Arg Thr Gly Ser Gly
Asp Asn Glu Val Gly Phe Thr Glu Asn Leu Tyr Phe Gln Gly Gly
                            600
Gly Gly Ser Leu Val Pro Arg Gly Ser His His His His His
<210> SEQ ID NO 7
<211> LENGTH: 10
<212> TYPE: PRT
<213 > ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Substrate XII
<220> FEATURE:
<221> NAME/KEY: substrat12_pos7
<222> LOCATION: (7)..(7)
<223> OTHER INFORMATION: Nva
<400> SEQUENCE: 7
Arg Pro Lys Pro Tyr Ala Xaa Trp Met Lys
               5
```

## 1. A compound according to Formula I:

$$O = \bigvee_{N=1}^{H} \bigcap_{R^1 = R^2} \bigcap_{N=1}^{N} \bigcap_{R^{3a} = Cy} \bigcap_{(R^6)_n} \bigcap_{R^6 = R^{3a}} \bigcap_{(R^6)_n} \bigcap_{R^{3a} = R^{3a}} \bigcap_{(R^6)_n} \bigcap_{R^{3a} = R^{3a}} \bigcap_{(R^6)_n} \bigcap_{R^{3a} = R^{3a}} \bigcap_{(R^6)_n} \bigcap_{R^{3a} = R^{3a}} \bigcap_{(R^6)_n} \bigcap_{(R$$

wherein

R<sup>1</sup> is:

Η,

C<sub>1-4</sub> alkyl optionally substituted with one or more independently selected R<sup>4</sup> groups,

 ${
m C_{3-7}}$  monocyclic cycloalkyl optionally substituted with one or more independently selected  ${
m R^4}$  groups,

4-7 membered monocyclic heterocycloalkyl comprising 1 to 2 heteroatoms independently selected from N, O, and S, optionally substituted with one or more independently selected  $C_{1-4}$  alkyl,  $-C(=O)C_{1-4}$  alkyl, or  $-C(=O)OC_{1-4}$  alkyl,

phenyl optionally substituted with one or more independently selected R<sup>5</sup> groups,

phenyl fused to a 5-6 membered monocyclic heterocycloalkyl comprising 1, 2 or 3 heteroatoms independently selected from N, O, and S, which heterocycloalkyl is optionally substituted with one or more —O,

5-6 membered monocyclic heteroaryl comprising 1 or 2 heteroatoms independently selected from N, O, and S, optionally substituted with one or more independently selected R<sup>5</sup> groups;

R<sup>2</sup> is independently selected from:

—Н,

—ОН,

C<sub>1-4</sub> alkoxy, and

 $C_{1-4}$  alkyl optionally substituted with one

OH,

—CN.

 $C_{1-4}$  alkoxy optionally substituted with one phenyl, and

5-6 membered monocyclic heteroaryl comprising 1 or 2 heteroatoms independently selected from N, O, and S, optionally substituted with one or more independently selected C<sub>1-4</sub> alkyl;

each  $\mathbf{R}^{3a}$ , and  $\mathbf{R}^{3b}$  is independently selected from H, and  $\mathbf{C}_{1\text{--}4}$  alkyl;

Cy is

6-10 membered monocyclic or fused bicyclic aryl,

5-10 membered monocyclic or fused bicyclic heteroaryl comprising 1, 2 or 3 heteroatoms independently selected from N, O, and S;

R4 is

halo,

—ОH,

CN,

C<sub>1-4</sub> alkyl,

C<sub>1-4</sub> alkoxy optionally substituted with one C<sub>1-4</sub> alkoxy, or phenyl,

C<sub>1-4</sub> thioalkoxy,

4-7-membered monocyclic heterocycloalkyl comprising one or more heteroatoms independently selected from N, S, and O, optionally substituted with one or more halo, or —C(=O)OC<sub>1-4</sub> alkyl,

phenyl,

 $S(=O)_2C_{1-4}$  alkyl

 $-C(=O)OR^{7a}$ 

 $-C(=O)NR^{7b}R^{7c}$ 

 $-NHC(=O)OR^{7d}$ 

 $-NHC(=O)R^{7e}$ 

 $-NR^{8a}R^{8b}$ ;

each R5 is

halo,

—о́н,

—СN,